
Sequence Listing could not be accepted due to errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)

217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2009; month=8; day=7; hr=8; min=1; sec=42; ms=458;]

Reviewer Comments:

<210> 15

<211> 3933

<212> DNA

<213> Pseudomonas sp. HJ-2 (phb locus)

<400> 15

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tggttaatgg gtactgcgag caatgcggca cgtatagctc tggtcaccgg tggtatgggc 180

ggtatcggta cggcgatcag ccagcgcctg catcgggatg gcttcaccgt ggtggtgggc 240

tgtaatccct actccagccg caaggcttcc tggattgcca cgcaactcga ggcgggcttt 300

cacttccact gcatcgactg cgacatcacc gactgggata gcacccgcca ggccttcgac 360

atggtgcacg agactgtcgg cccgatcgat gtattggtca acaatgccgg catcacccgc 420

gacggcactt tccgcaagat gtccccggaa aactggaagg cggtgatcga taccaatctc 480

accggcctgt tcaacacaac caagcaggtc atcgagggca tgctggccaa gggctgggga 540

cgcgtcatca acatctcctc aatcaatggc cagcgaggcc agttcgggca gaccaactac 600

tccgcggnca aggctggcat tcatggcttc agcatggcct tggcccgcga ggtgagtggc 660

aagggcgtga ccgtcaatac ggtttcccct ggctacatca agaccgacat gaccgcggcg 720

attcgcccgg acatcctcga agacatgatt actggcattc ccgtgggccg tctcggccag 780

cccgaggaga tcgcctcgat cgtggcctgg ctggcctccg atcagtctgc ctatgccacc 840

ggcgccgact tctcggtgaa tggcggcatg aacatgcagt gatgcgccat tcgcgccctc 900

gctcagccat gacatgaggt gttccagatg atcgaagtcg ttatcgtcgc cgccactcgc 960

accgccatcg gcgctttcca ggggagcctg gccggcactc ccgccgttga actgggcgcc 1020

acggtgatcc gccgcctgct cgaacagacc gctctggata gcagtcaggt ggatgaagtg 1080

atactcggcc acgtactcac cgccggtgct ggcagaatac cgctcgccag gcancnggtc 1140

Regarding the above <213> response; per 1.823 of the Sequence Rules, the only valid responses are the Genus species of the organism, "Artificial Sequence", or "Unknown". "Artificial Sequence" and "Unknown" require explanation in the <220>-<223> section; please give the source of the genetic material. Please just list the Genus species as the <213> response; put explanatory matter in the <220>-<223> section; please correct all similar sequences.

The n's at locations 608, 1134, and 1136 are not explained above.

<210> 16

<211> 251

<212> PRT

<213> Pseudomonas sp. HJ-2 (NADPH-dependent acetoacetyl-CoA reductase

(phbB))

<400> 16

Met Gly Thr Ala Ser Asn Ala Ala Arg Ile Ala Leu Val Thr Gly Gly
1 10 15

Met Gly Gly Ile Gly Thr Ala Ile Ser Gln Arg Leu His Arg Asp Gly 20 25 30

Phe Thr Val Val Val Gly Cys Asn Pro Tyr Ser Ser Arg Lys Ala Ser 35

Trp Ile Ala Thr Gln Leu Glu Ala Gly Phe His Phe His Cys Ile Asp 50

Cys Asp Ile Thr Asp Trp Asp Ser Thr Arg Gln Ala Phe Asp Met Val 65 70 75

His Glu Thr Val Gly Pro Ile Asp Val Leu Val Asn Asn Ala Gly Ile 85

Thr Arg Asp Gly Thr Phe Arg Lys Met Ser Pro Glu Asn Trp Lys Ala 100 110

Val Ile Asp Thr Asn Leu Thr Gly Leu Phe Asn Thr Thr Lys Gln Val 115 120

Ile Glu Gly Met Leu Ala Lys Gly Trp Gly Arg Val Ile Asn Ile Ser 130 140

Ser Ile Asn Gly Gln Arg Gly Gln Phe Gly Gln Thr Asn Tyr Ser Ala 145

Xaa Lys Ala Gly Ile His Gly Phe Ser Met Ala Leu Ala Arg Glu Val 165 170 175 Please correct the above <213> response to just indicate the Genus species of the organism; place explanatory matter in the <220>-<223> section. Also, the above <213> response exceeds the Sequence Rules' required 72-character line limit. The "Xaa" at location 161 is not explained above.

<210> 17

<211> 392

<212> PRT

<213> Pseudomonas sp. HJ-2 (beta-ketothiolase (phbA))

<400> 17

Met Ile Glu Val Val Ile Val Ala Ala Thr Arg Thr Ala Ile Gly Ala 1 10 15

Phe Gln Gly Ser Leu Ala Gly Thr Pro Ala Val Glu Leu Gly Ala Thr
20 30

Val Ile Arg Arg Leu Leu Glu Gln Thr Ala Leu Asp Ser Ser Gln Val
35 40

Asp Glu Val Ile Leu Gly His Val Leu Thr Ala Gly Ala Gly Arg Ile 50

Pro Leu Ala Arg Xaa Xaa Val Ile Ala Gly Leu Pro His Ala Val Pro 65 70 75

Please correct the above <213> response. Also, the "Xaa's" at locations 69-70 are not explained above.

Validated By CRFValidator v 1.0.3

Application No: 10583840 Version No: 2.0

Input Set:

Output Set:

Started: 2009-07-22 14:17:12.979

Finished: 2009-07-22 14:17:15.807

Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 828 ms

Total Warnings: 18

Total Errors: 6

No. of SeqIDs Defined: 18

Actual SeqID Count: 18

Error code		Error Description
W	213	Artificial or Unknown found in <213> in SEQ ID (1)
W	213	Artificial or Unknown found in <213> in SEQ ID (2)
W	213	Artificial or Unknown found in <213> in SEQ ID (3)
W	213	Artificial or Unknown found in <213> in SEQ ID (4)
W	213	Artificial or Unknown found in <213> in SEQ ID (5)
W	213	Artificial or Unknown found in <213> in SEQ ID (6)
W	213	Artificial or Unknown found in <213> in SEQ ID (7)
W	213	Artificial or Unknown found in <213> in SEQ ID (8)
W	213	Artificial or Unknown found in <213> in SEQ ID (9)
W	213	Artificial or Unknown found in <213> in SEQ ID (10)
W	213	Artificial or Unknown found in <213> in SEQ ID (11)
W	402	Undefined organism found in <213> in SEQ ID (12)
W	402	Undefined organism found in <213> in SEQ ID (13)
W	402	Undefined organism found in <213> in SEQ ID (14)
W	402	Undefined organism found in <213> in SEQ ID (15)
E	342	'n' position not defined found at POS: 608 SEQID(15)
E	342	'n' position not defined found at POS: 1134 SEQID(15)
E	342	'n' position not defined found at POS: 1136 SEQID(15)
W	402	Undefined organism found in <213> in SEQ ID (16)
E	341	'Xaa' position not defined SEQID (16) POS (161)

Input Set:

Output Set:

Started: 2009-07-22 14:17:12.979

Finished: 2009-07-22 14:17:15.807

Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 828 ms

Total Warnings: 18

Total Errors: 6

No. of SeqIDs Defined: 18

Actual SeqID Count: 18

Err	or code	Error Description	
W	402	Undefined organism found in <213> in SEQ ID (17)
E	341	'Xaa' position not defined SEQID (17) POS (69)
E	341	'Xaa' position not defined SEQID (17) POS (70)
W	402	Undefined organism found in <213> in SEQ ID (18)

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<130> LC05PCT042
<140> 10583840
<141> 2009-07-22
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<151>
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<160>
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<211>
        18
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<213>
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<220>
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<400>
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<211>
        20
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<220>
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        3
<211>
        24
<212>
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<213>
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<220>
<223> HJ-PHB-N (PCR Primer)
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                                                                       24
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<110>

LG CHEM, LTD.

```
<211>
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<213>
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<220>
<223> HJ-PHB-C (PCR Primer)
<400>
        4
tcadmsytty acrtarcgkc ctggygc
                                                                      27
        5
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<211>
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<213>
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<213>
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<220>

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        28
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        Artificial Sequence
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        10
<211>
        28
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<213>
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<223>
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<400>
        10
                                                                       28
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        11
<211>
        39
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        11
                                                                       39
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        12
<211>
        756
<212>
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<220>
<221>
        variation
<222>
       (482)
<223>
        n=A, C, G or T
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<400>

12

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ccctactcca	gccgcaaggc	ttcctggatt	gccacgcaac	tcgaggcggg	ctttcacttc	180
cactgcatcg	actgcgacat	caccgactgg	gatagcaccc	gccaggcctt	cgacatggtg	240
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ccggacatcc	tcgaagacat	gattactggc	attcccgtgg	gccgtctcgg	ccagcccgag	660
gagatcgcct	cgatcgtggc	ctggctggcc	tccgatcagt	ctgcctatgc	caccggcgcc	720
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```
<210> 13
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<400> 13

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180	caccgccggt	gccacgtact	gtgatactcg	ggtggatgaa	atagcagtca	accgctctgg
240	cgccgtaccg	gcctgccaca	gtcatcgccg	caggcancng	taccgctcgc	gctggcagaa
300	gggcgcccag	ccctgcacct	ggcctgaaag	ctgtggctcc	tgaacaaggt	gcgatgaccc
360	catgagcctg	gcatggagaa	attgccggtg	cgaggtggtg	gtggcgatgc	gccatccgct
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<211> 1179

<212> DNA

<213> Pseudomonas sp. HJ-2

<220>

<221> variation

<222> (207)

<223> n=A, C, G or T

<220>

<221> variation

<222> (209)

<223> n=A, C, G or T

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gcctcgcagc agaaagccgt g	gccgccatc	gagaccggtc	gcttccgcga	cgagatcgtc	600
ccggtgagca ttccgcagcg c	aagggcgag	gcgctgagct	tcgacaccga	cgaacagcca	660
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agtgcggcaa aggccgcagc g	gcttggtctg	ccagtgctgg	cgaagatcgc	cgcctacgcc	840
aatgccggcg tcgacccggc g	gatcatgggt	atcggaccgg	tgtcggccac	ccgcagttgc	900
ctggagaagg cgggctggag t	ctggcagag	ctggatctga	tcgaggccaa	tgaagccttc	960
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aacggcggcg ccatcgccct c	ggccacccc	attggcgcct	ccggctgccg	cgtactggtc	1080
agcctgctgc atgaaatgct c	aggcgcgac	gcgaaaaaag	gcctcgctac	cctgtgtatc	1140
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<211> 1701

<212> DNA

<213> Pseudomonas sp. HJ-2 (SCL-PHA synthase (phaC))

<400> 14

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<211> 3933

<212> DNA

<213> Pseudomonas sp. HJ-2 (phb locus)

<400> 15

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Trp Ile Ala Thr Gln Leu Glu Ala Gly Phe His Phe His Cys Ile Asp
50 60

Cys Asp Ile Thr Asp Trp Asp Ser Thr Arg Gln Ala Phe Asp Met Val
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His Glu Thr Val Gly Pro Ile Asp Val Leu Val Asn Asn Ala Gly Ile
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Val Ile Asp Thr Asn Leu Thr Gly Leu Phe Asn Thr Thr Lys Gln Val 115 120 125

Ile Glu Gly Met Leu Ala Lys Gly Trp Gly Arg Val Ile Asn Ile Ser 130 135 140

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Ser Gly Lys Gly Val Thr Val Asn Thr Val Ser Pro Gly Tyr Ile Lys
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Thr Gly Ile Pro Val Gly Arg Leu Gly Gln Pro Glu Glu Ile Ala Ser 210 215 220

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